

Title (en)

Flame resistant staple fiber blend.

Title (de)

Flammfeste Stapelfasermischung.

Title (fr)

Mélange de fibres courtes résistant à la flamme.

Publication

**EP 0330163 B1 19940105 (EN)**

Application

**EP 89103053 A 19890222**

Priority

JP 4230088 A 19880226

Abstract (en)

[origin: EP0330163A2] A flame resistant staple fiber blend, useful for flame-resistant clothing, comprising 80 to 97 weight parts of m-aramide polymer staple fibers (A) with a small thermal shrinkage stress of 130 mg/d or less at 350 DEG C, 3 to 20 weight parts of p-aramide copolymer staple fibers (B) with a higher flame resistance than that of the m-aramide staple fiber (A), and optionally, 240 weight parts or less of non-fusible staple fibers (C) with a lower thermal shrinkage stress than that of the staple fiber (A).

IPC 1-7

**D02G 3/04**; **D01F 6/60**

IPC 8 full level

**D02G 3/04** (2006.01); **D01F 6/60** (2006.01); **D02G 3/44** (2006.01)

CPC (source: EP KR US)

**D01F 2/00** (2013.01 - KR); **D01F 6/605** (2013.01 - EP US); **D02G 3/047** (2013.01 - EP US); **D02G 3/443** (2013.01 - EP US);  
**D10B 2331/021** (2013.01 - EP US)

Cited by

CN100339524C; FR2987846A1; US5852087A; EP0739707A1; EP0790334A1; EP0533931A4; US10433593B1; US7402538B2; US7156883B2;  
US9683315B2; WO0146503A1; WO2005099426A1; WO2005017244A1; US8932965B1; US10288385B2; US6668535B2; US6889494B2;  
US8209785B2; US8528120B2; US11873587B2; US11891731B2

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DOCDB simple family (publication)

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CA 1335006 C 19950328; DE 68911952 D1 19940217; DE 68911952 T2 19940728; JP H01221537 A 19890905; KR 890013231 A 19890922;  
KR 930009831 B1 19931011; US 4988746 A 19910129

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KR 890002261 A 19890225; US 31438489 A 19890223